

Fig. 1

Constitution of system

システム構成

【書類名】  
【図1】

図面

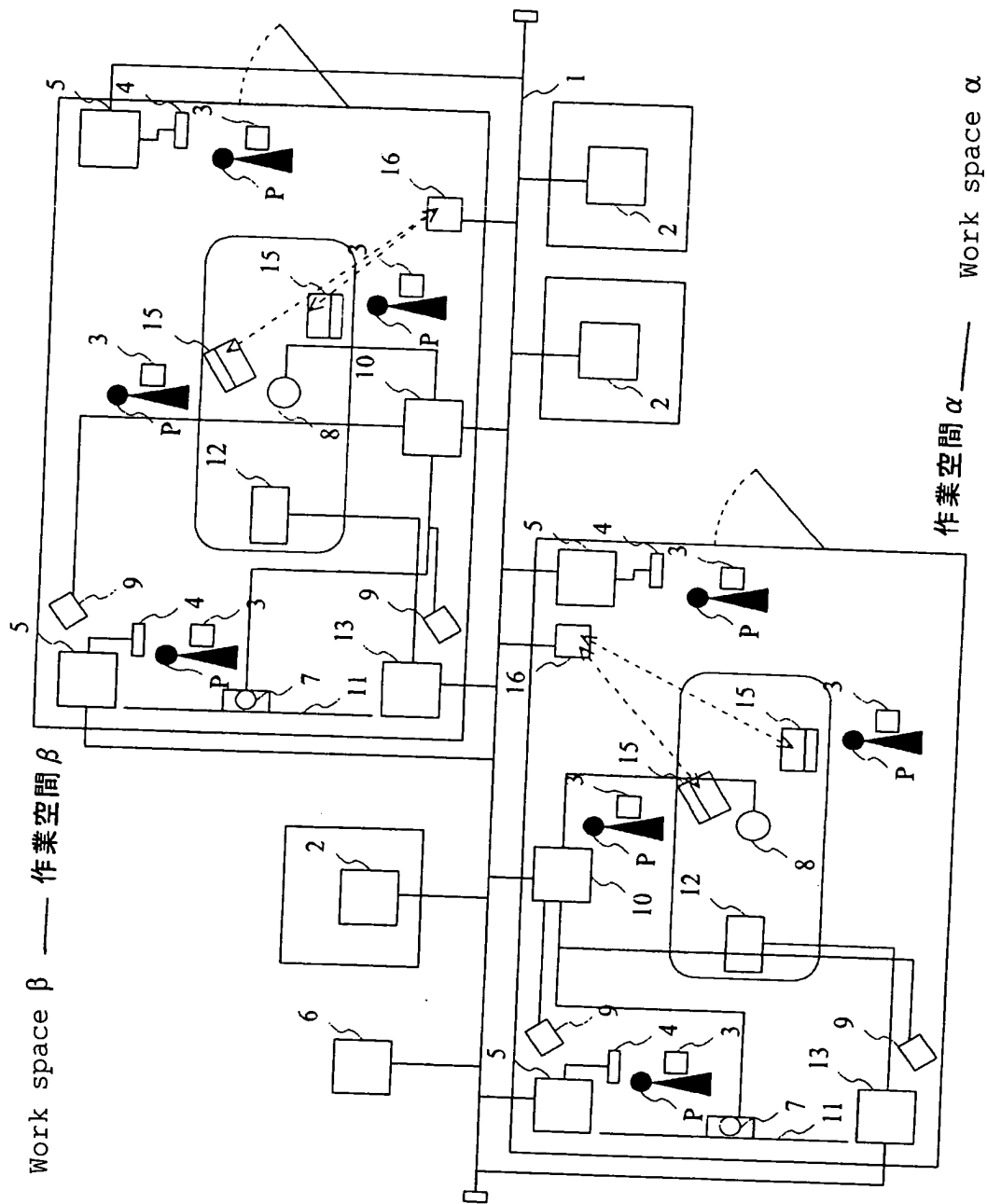
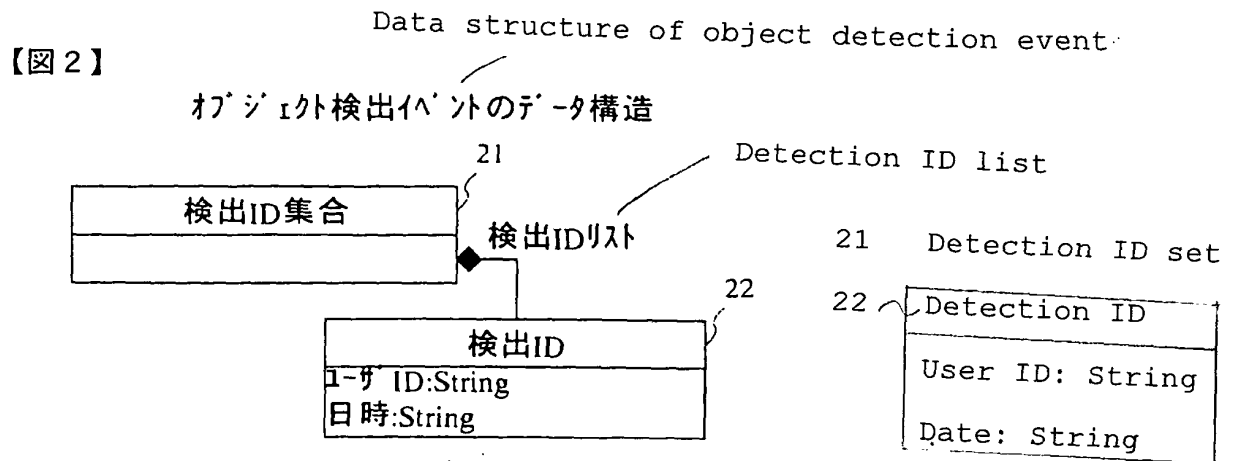


Fig. 2



Detection of object and sending of object detection message

オブジェクトの検出とオブジェクト検出メッセージの送信

Fig. 3A

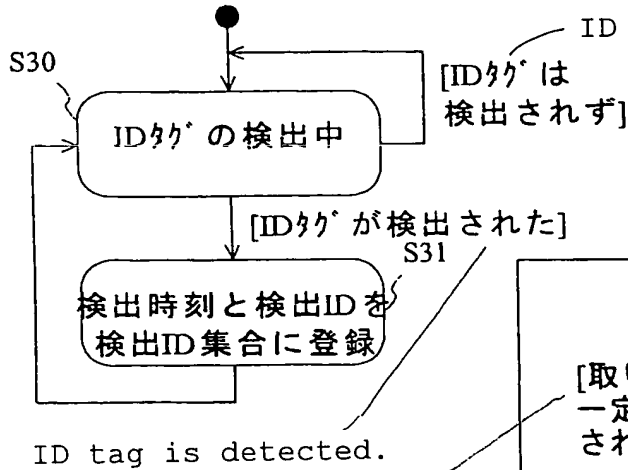
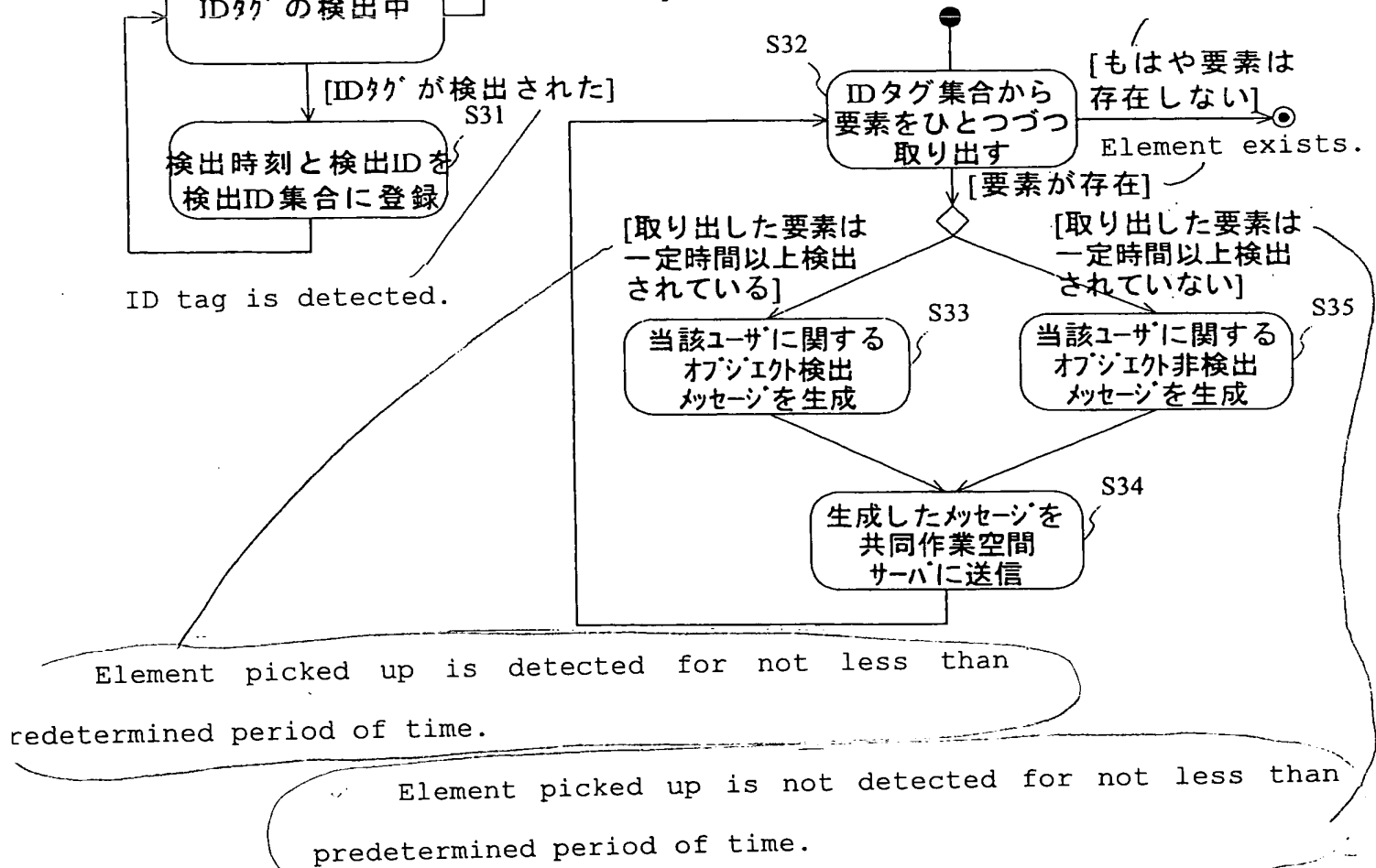


Fig. 3B

ID tag is not detected.

No element exists.



S30 ID tag is being detected.

S31 Register detection time and detection ID in detection ID set.

S32 Pick up element one by one from ID tag set.

S33 Object detection and message generation with respect to user concerned.

S34 Send message generated to common work space server.

S35 Generate object non-detection message with respect to user concerned.

【図4】

Object detection message

オブジェクト検出メッセージ

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Fig. 4A

```
<?xml version="1.0" encoding="Shift-JIS" ?>
<sensedinfo>
  <messageid>13C57A9B11D1E3</messageid>
  <status>detected</status>
  <objectid>2A4A6D81CB012</objectid>
  <datetime>10:23:15 July, 20, 2002</datetime>
  <tagreaderid>5B10A1CF5D20</tagreaderid>
</sensedinfo>
```

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Fig. 4B

```
<?xml version="1.0" encoding="Shift-JIS" ?>
<sensedinfo>
  <messageid>1A35D791F1A13</messageid>
  <status>disappeared</status>
  <objectid>24A68DB1F01E2</objectid>
  <datetime>10:23:15 July, 20, 2002</datetime>
  <tagreaderid>5C1D0BA1E52B0</tagreaderid>
</sensedinfo>
```

53	Activity event reference
	Activity history server: URL
	Object ID: String
	Detection starting date: String
	Detection ending date: String
	Place ID: String
	Place name: String

Data structure of collaborative activity context

共同活動コンテキストのデータ構造

51

共同活動コンテキスト集合
7ドレズ:URL

Address

51 Collaborative activity context set

52 Collaborative activity context

Event ID: String

Context start time: String

Context end time: String

State: String

Place ID: String

Place name: String

56 Current context

Collaborative activity context ID:ID

共同活動  
コンテキスト集合

共同活動  
コンテキスト集合

共同活動コンテキスト
イベントID:String
コンテキスト開始時刻:String
コンテキスト終了時刻:String
状態:String
場所ID:String
場所名:String

共有文書フォルダ集合

56

カレントコンテキスト
共同活動コンテキストID:ID

Common document folder set

52

Activity event reference set

53

活動イベント参照
活動履歴サーバ:URL
オブジェクトID:String
検出開始日時:String
検出終了日時:String
場所ID:String
場所名:String

活動イベント  
参照集合

54

共有文書フォルダ
フォルダ7ドレズ:URL

55

キャプチャフォルダ
フォルダ7ドレズ:URL

55 Capture folder

54 Common document folder

Folder address: URL

Folder address: URL

Fig. 5

【図6】

オブジェクトの検出とオブジェクト検出メッセージの送信

Fig. 6A

(a)

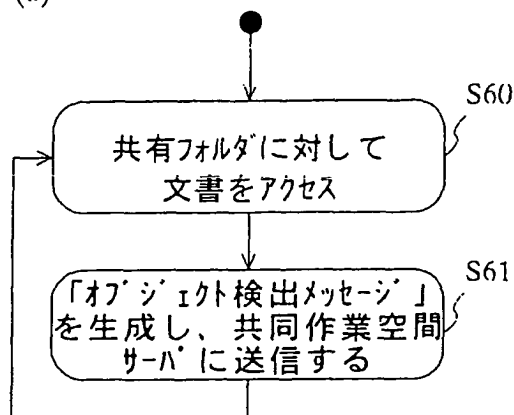
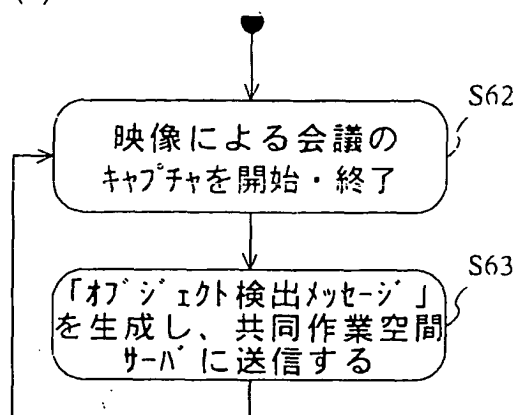


Fig. 6B

(b)



Detection of object and sending of object detection message

S60 Let document make access to common folder.

S61 Generate "object detection message" and send it to common work space server.

S62 Start and finish capture of conference conducted by images.

S63 Generate "object detection message" and send it to common work space server.

Fig. 7

【図7】

キャプチャ映像再生ビュー

Reproduce and view capture image.

Meeting of design

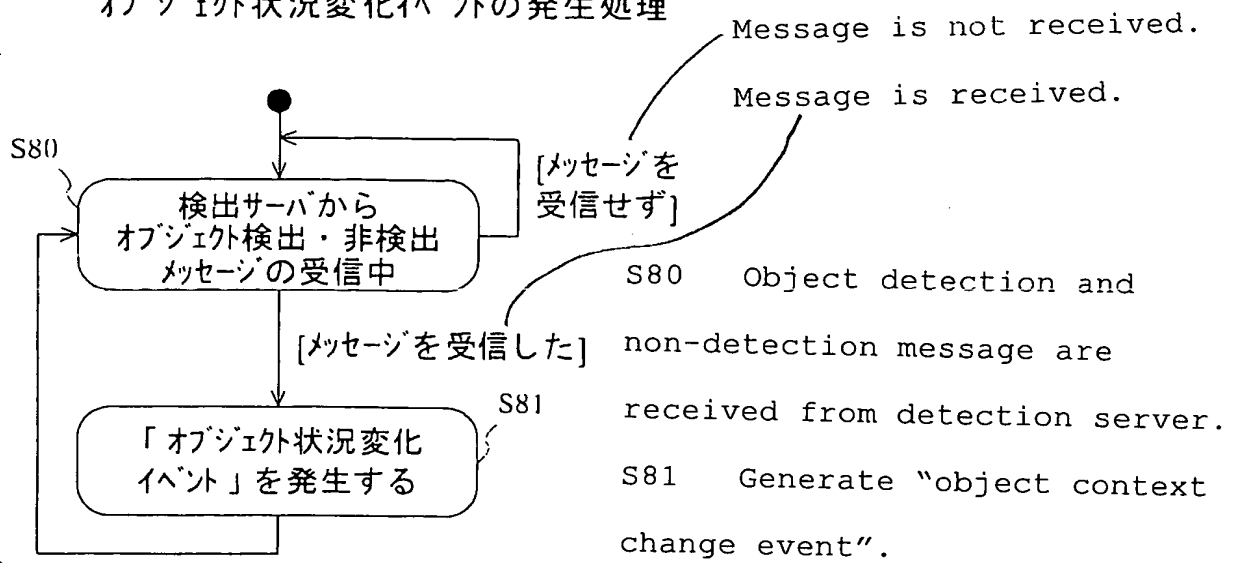


【図8】

Processing of generation of object context change event

オブジェクト状況変化イベントの発生処理

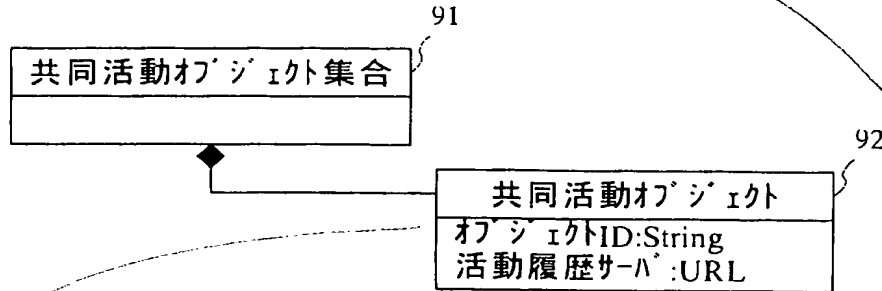
Fig. 8



【図9】

Fig. 9

共同活動オブジェクトのデータ構造



Data structure of collaborative activity object

91 Collaborative activity object set

92 Collaborative activity object

Object ID: String

Activity history server: URL



Fig. 10

【図10】

Activity event registration message

活動イベント登録メッセージ

101

(a)

```
<?xml version="1.0" encoding="Shift-JIS" ?>
<activityevent>
  <messageid>2A1D3C4B6C5</messageid>
  <status>appeared</status>
  <credential>67F1B3E7A9D</credential>
  <objectid> 24A6C8D1E01A2 </objectid>
  <objecttype>person</objecttype>
  <datetime>15:32:05 July, 20, 2002</datetime>
  <workspaceid>97A5CA3FD2B6</workspaceid>
  <workspacename>会議室21</workspacename>
  <previous>http://www.alpha.net/3D2A4356BC36B.xml</previous>
</activityevent>
```

(b)

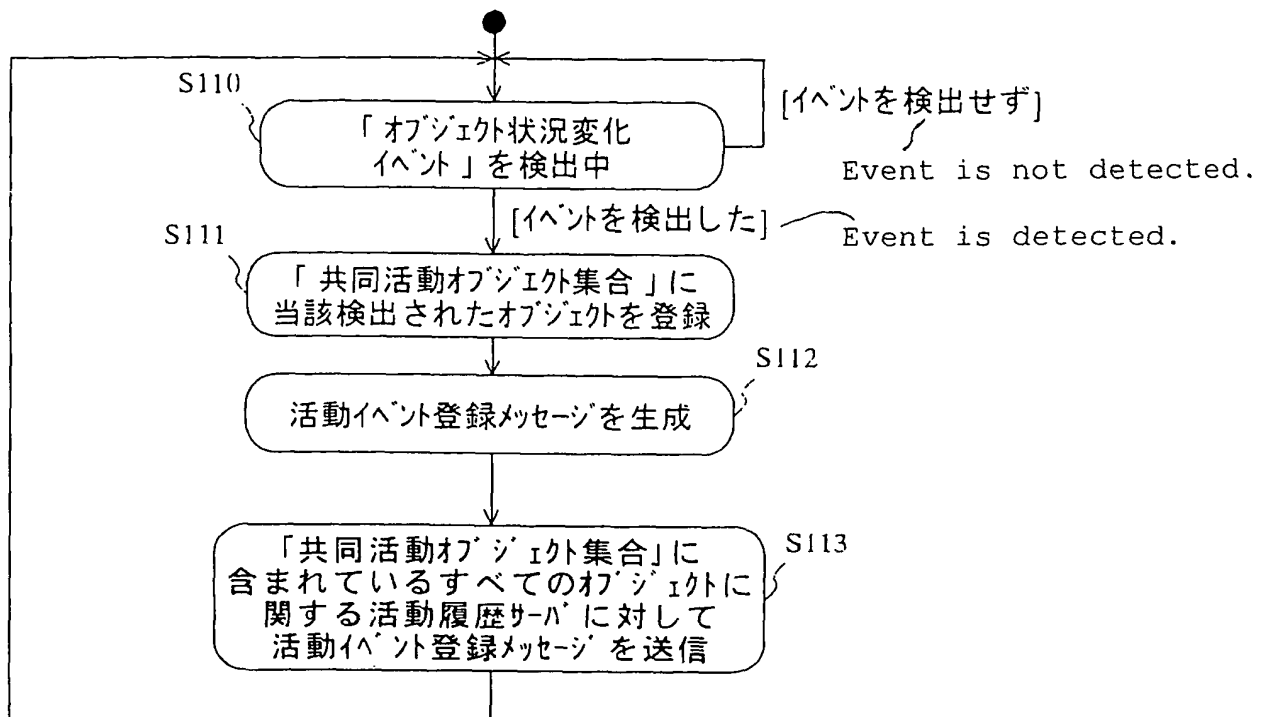
```
<?xml version="1.0" encoding="Shift-JIS" ?>
<activityevent>
  <messageid>2A1D3C4B6C5</messageid>
  <status>disappeared</status>
  <credential>67F1B3E7A9D</credential>
  <objectid> 24A6C8D1E01A2 </objectid>
  <objecttype>person</objecttype>
  <datetime>15:32:05 July, 20, 2002</datetime>
  <workspaceid>97A5CA3FD2B6</workspaceid>
  <workspacename>会議室21</workspacename>
  <previous>http://www.alpha.net/3D2A4356BC36B.xml</previous>
</activityevent>
```

Conference room

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Fig. 11

【図11】



S110 Detect "object context change event".

S111 Register detected object in "collaborative activity object set".

S112 Generate activity event registration message.

S113 Send activity event registration message to activity history servers with respect to all objects included in "collaborative activity object set".

Fig. 12

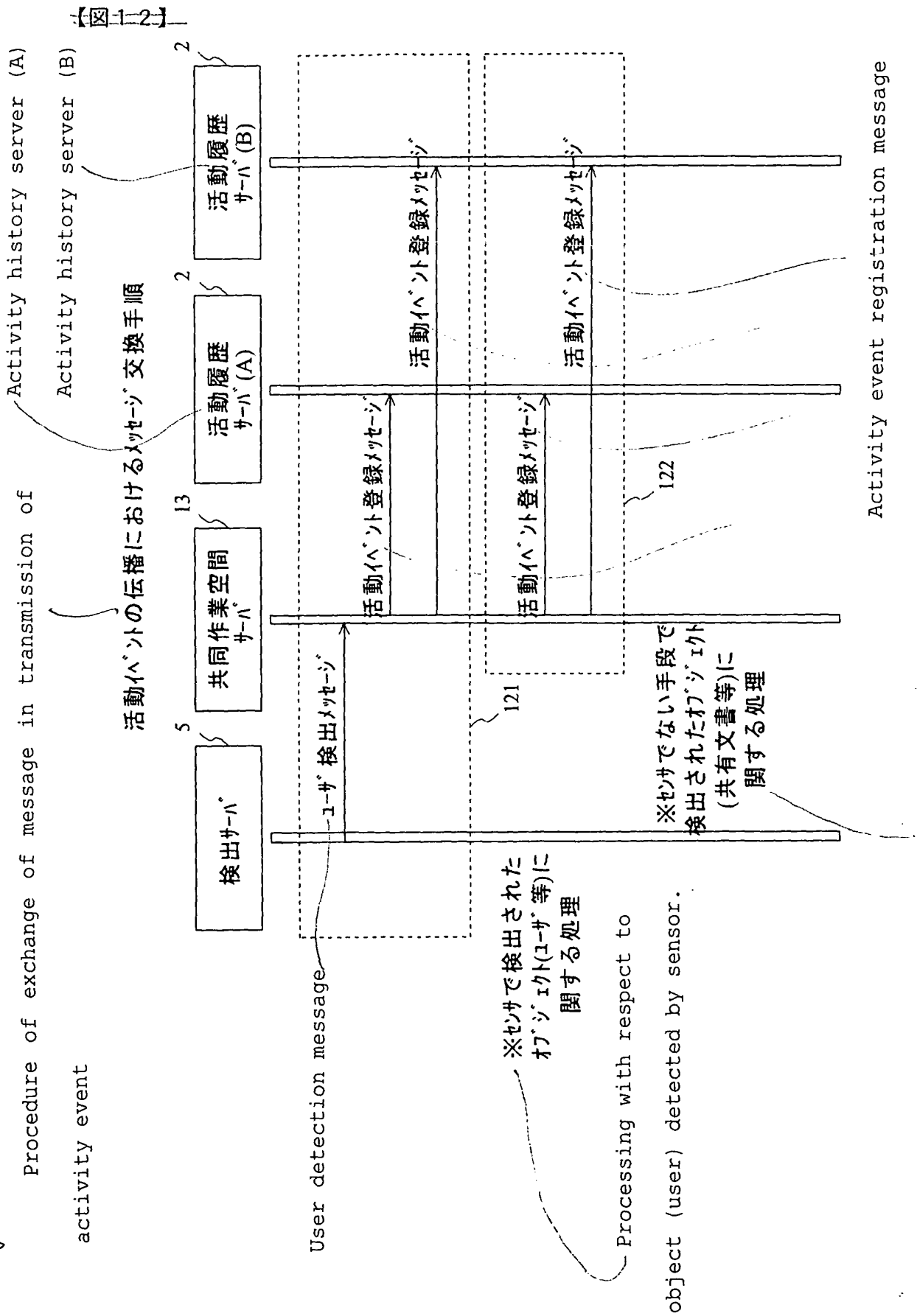
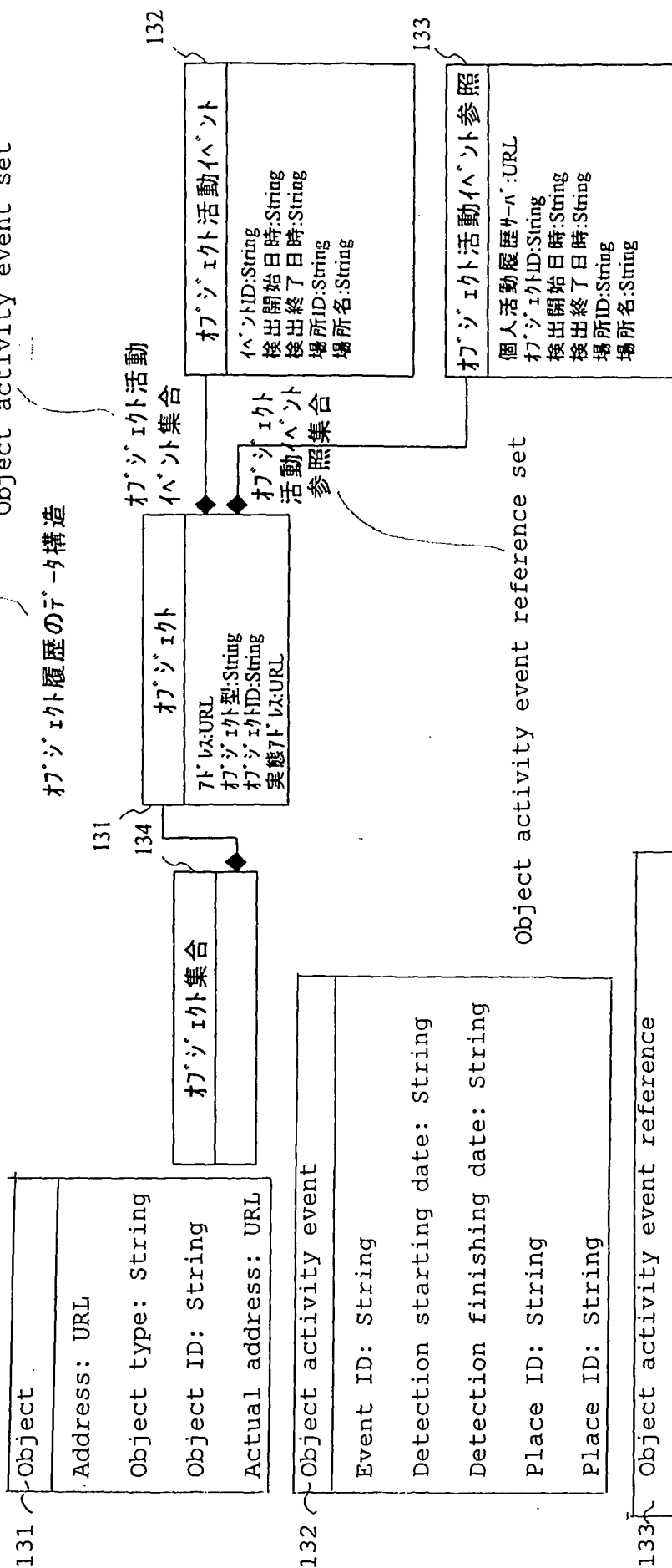


Fig. 13

Data structure of object history

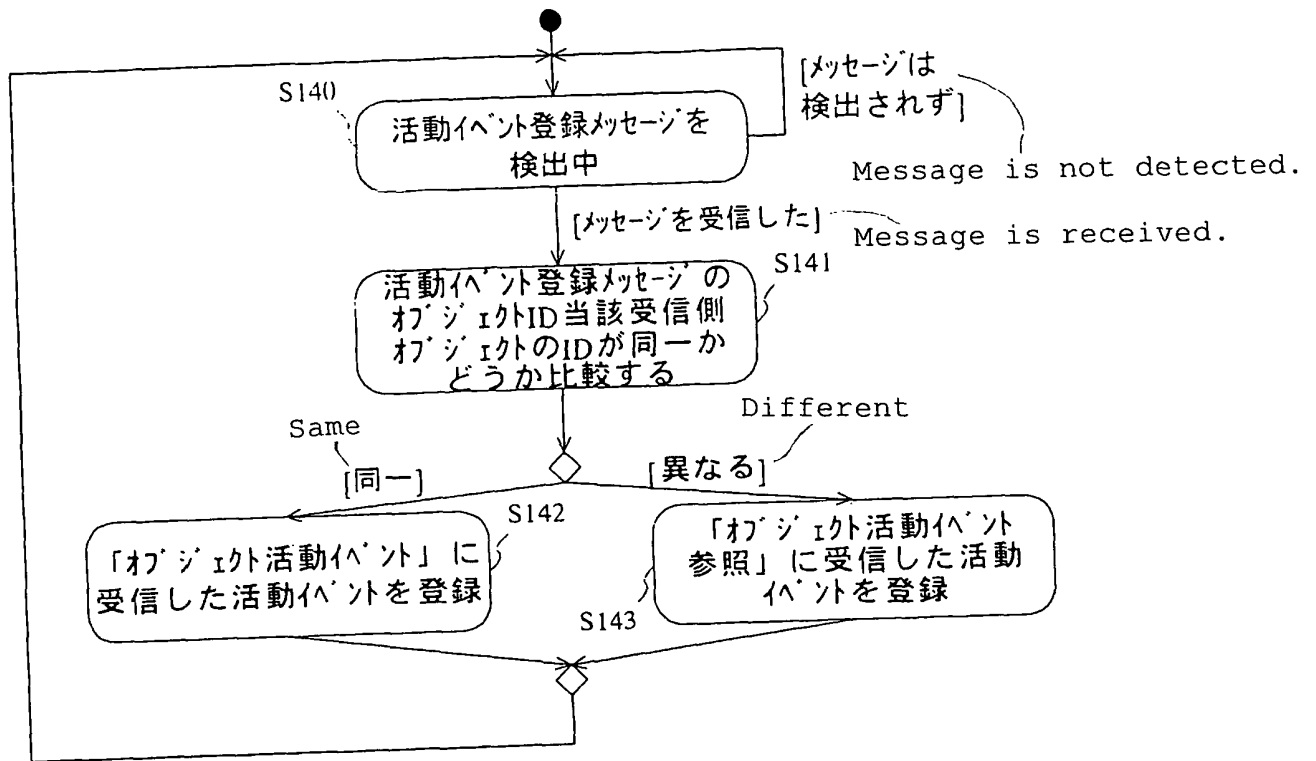
Object activity event set

オブジェクト履歴のデータ構造



【図14】 Processing of registration of receipt of activity event

活動イベントの受信登録処理



S140 Activity event registration message is being detected.

S141 Compare to check whether or not ID of object on receiving side of object ID of activity event registration message is the same.

S142 Register activity event received in "object activity event".

S143 Register activity event received in "object activity event reference".

Fig. 14

【図15】

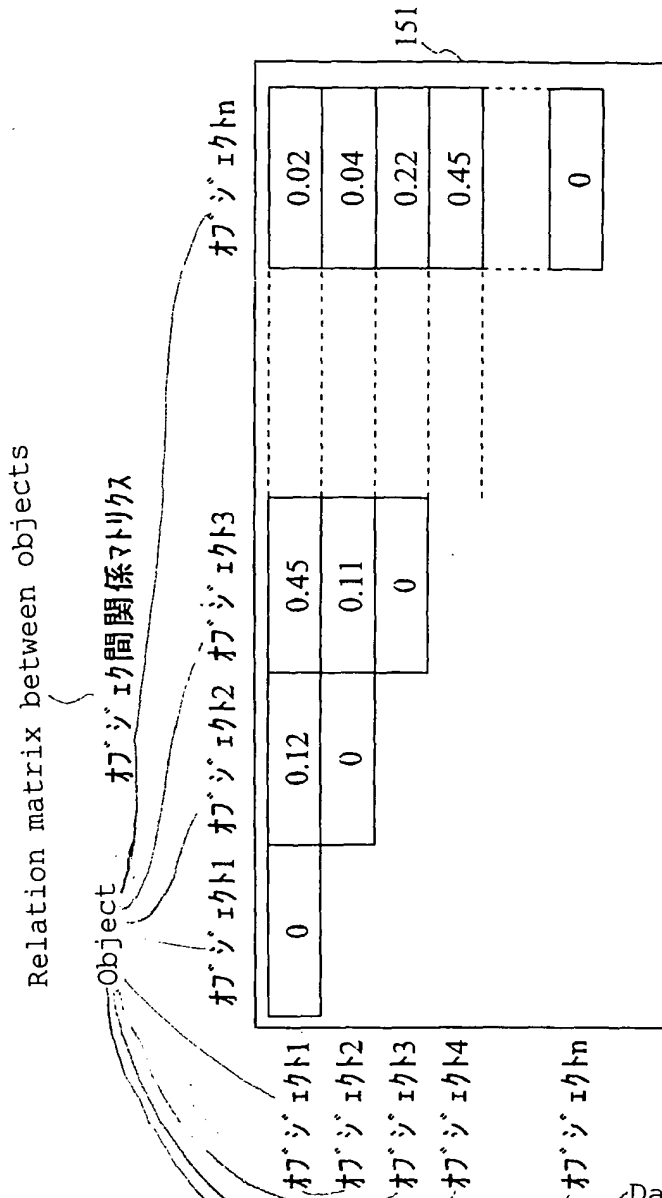


Fig. 15

【図16】

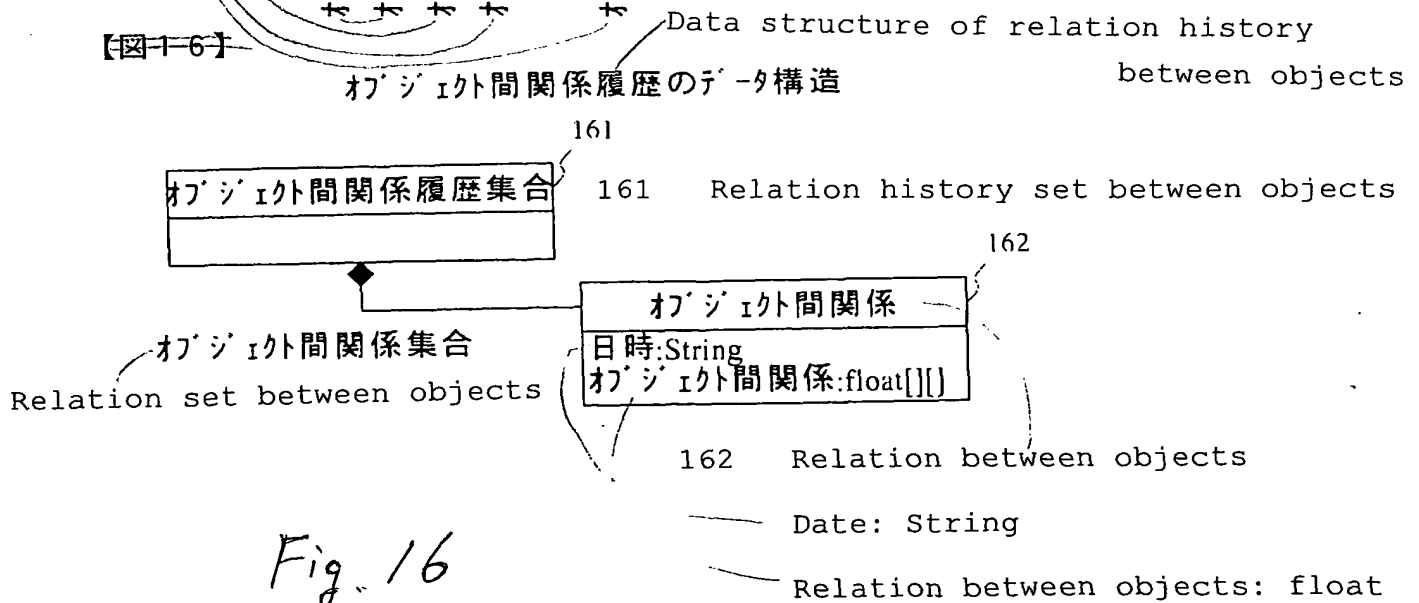
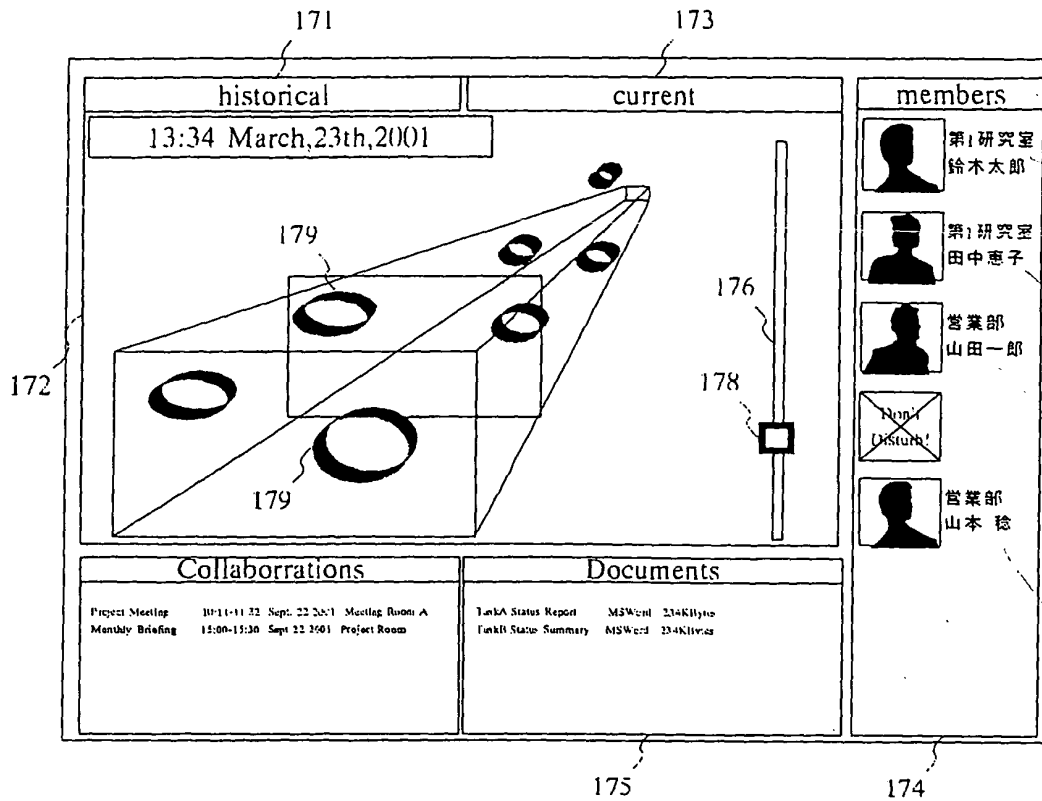


Fig. 16

俯瞰表示インターフェイス



First laboratory Taro Suzuki

First laboratory Keiko Tanaka

Business department Ichiro Yamada

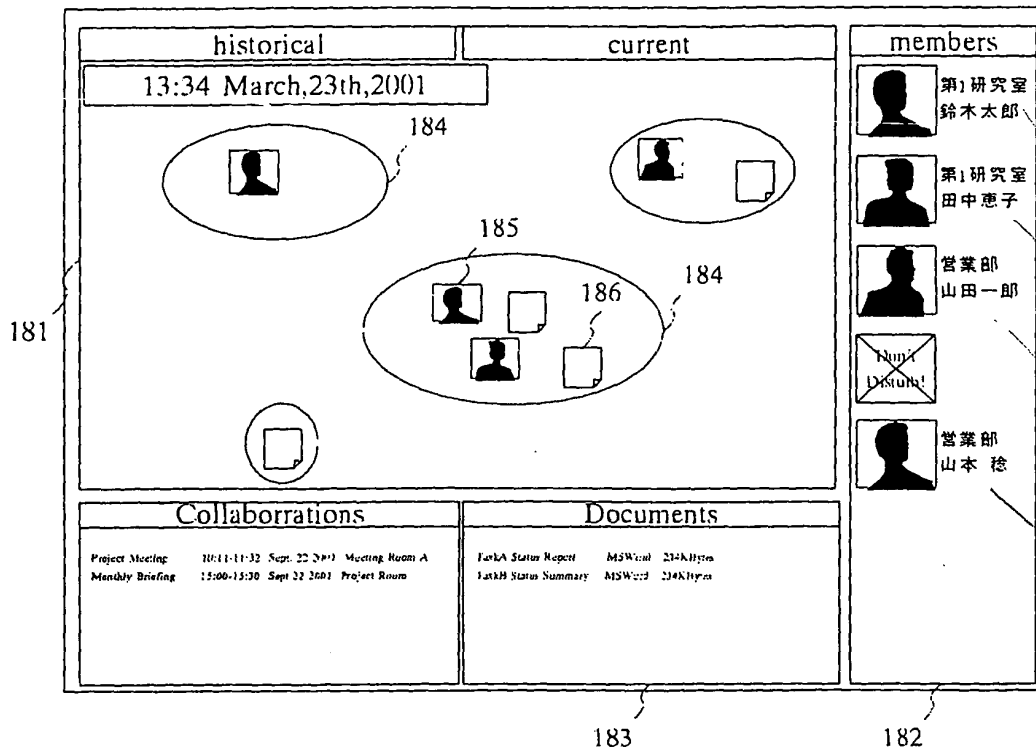
Business department Minoru Yamamoto

Fig. 17

# Interface for displaying an overview of activity history

【図18】

活動履歴俯瞰表示インターフェース



First laboratory Taro Suzuki

First laboratory Keiko Tanaka

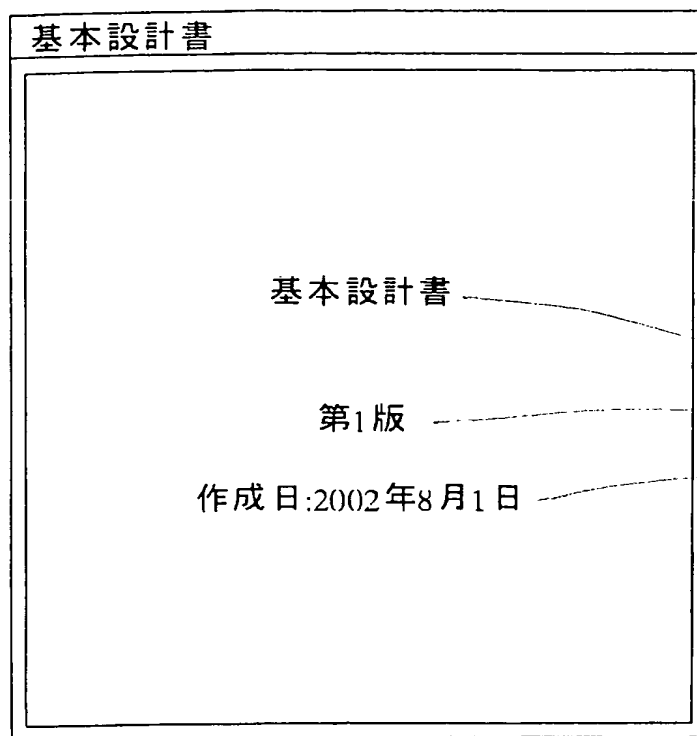
Business department Ichiro Yamada

Business department Minoru Yamamoto

Fig. 18



共有文書ビュー



View of common document

Basic design document

First edition

Date: August 1, 2002

Fig. 19

オブジェクト間関係の俯瞰表示処理

Processing of display of an

overview of relation between objects  
S200

共同活動イベント集合から共同活動イベントを  
取り出しオブジェクト間の関係を計算

S201

オブジェクト間関係マトリックスをもとに  
オブジェクト間の関係を俯瞰表示する

S202

俯瞰表示中のオブジェクト  
アイコンの領域の選択待ち

[領域内が  
選択されていない]

[領域内が選択された]

[オブジェクト型が  
コンテンツの場合]

[オブジェクト型が  
ユーザの場合]

S203

選択された文書を  
取り出して表示する

S204

当該ユーザの電話番号に  
基づいて相手呼び出す

Inside of region is not selected.

Inside of region is selected.

"In case where object type is contents"

"In case where object type is user"

S200 Pick up collaborative activity event from collaborative activity event set and calculate relation between objects.

S201 Display an overview of relation between objects together with relation matrix between objects.

S202 Wait for selection of object icon region displayed.

S203 Pick up and display selected document.

S204 Make phone call to opponent according to telephone number of user concerned.

Fig. 20

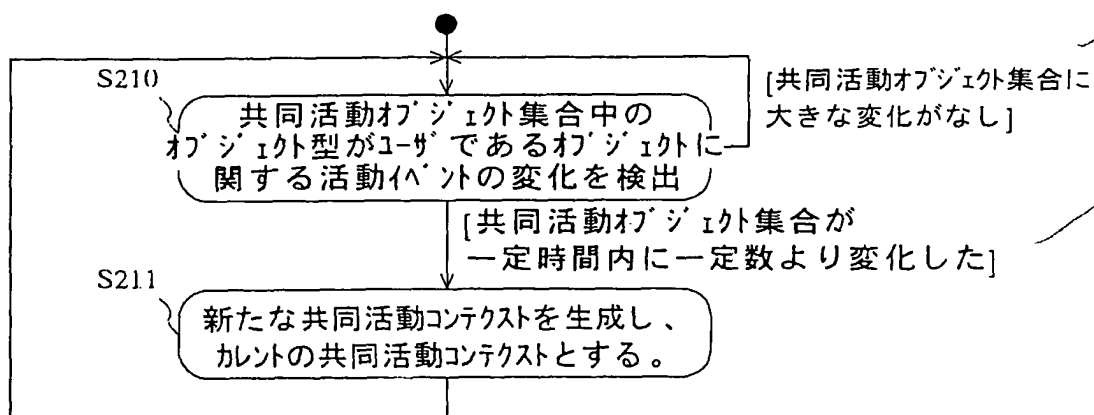
Processing of generation of collaborative activity context

Collaborative activity object set is not greatly changed.

Collaborative activity object set is changed from predetermined number in predetermined period of time.

【図21】

共同活動コンテキストの生成処理



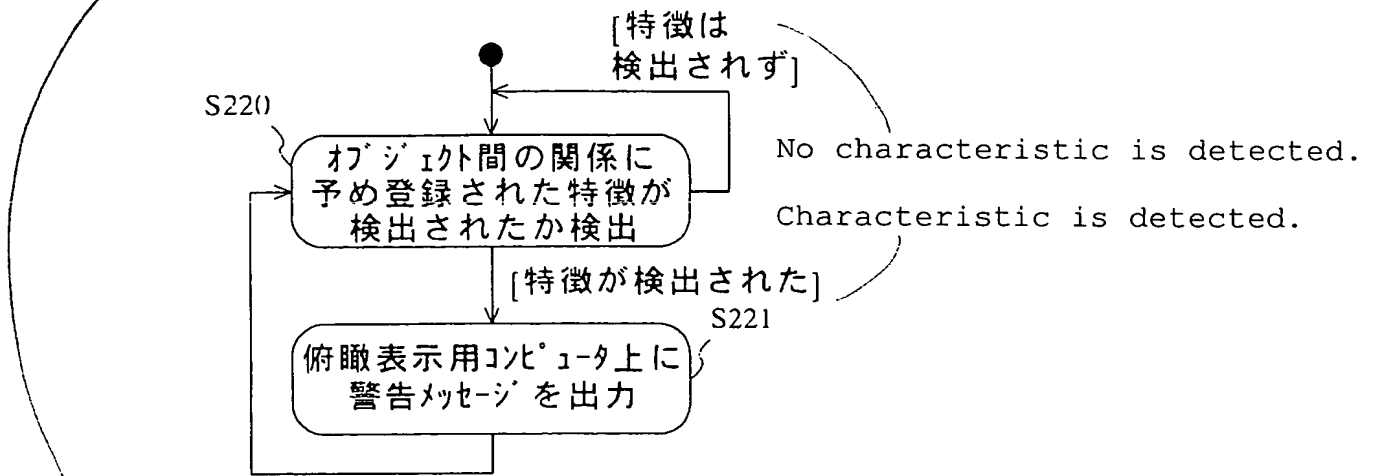
S210 Detect change in activity event with respect to object, object type of which is user, in collaborative activity object set.

S211 Generate new collaborative activity context so as to use as current collaborative activity context.

Fig. 22

【図22】

検出されたオブジェクト間の関係に基づく状況のAUI7



Awareness of contexts according to relation between objects detected.

S220 Detect whether or not characteristic previously registered in relation between objects has been detected.

S221 Output warning message from computer for displaying an overview.